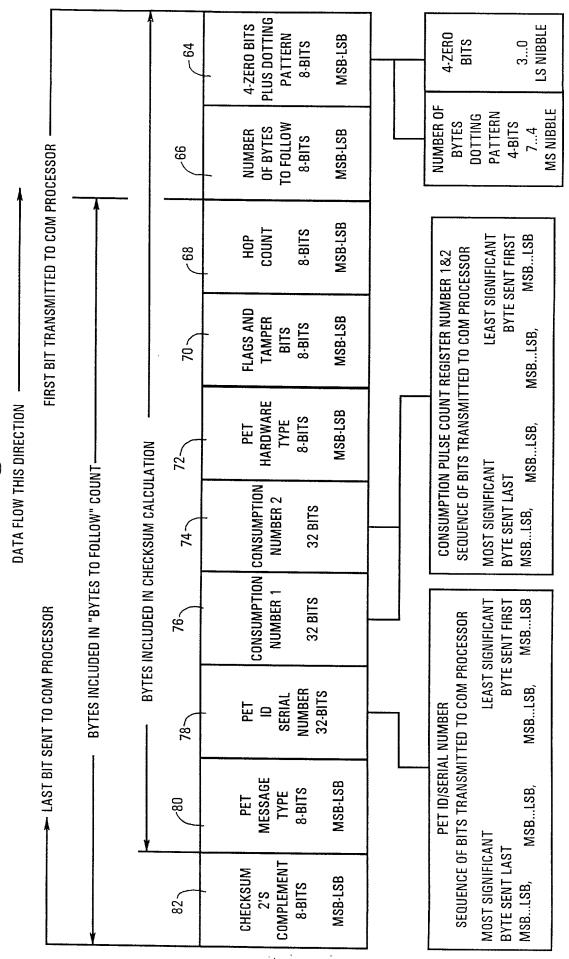
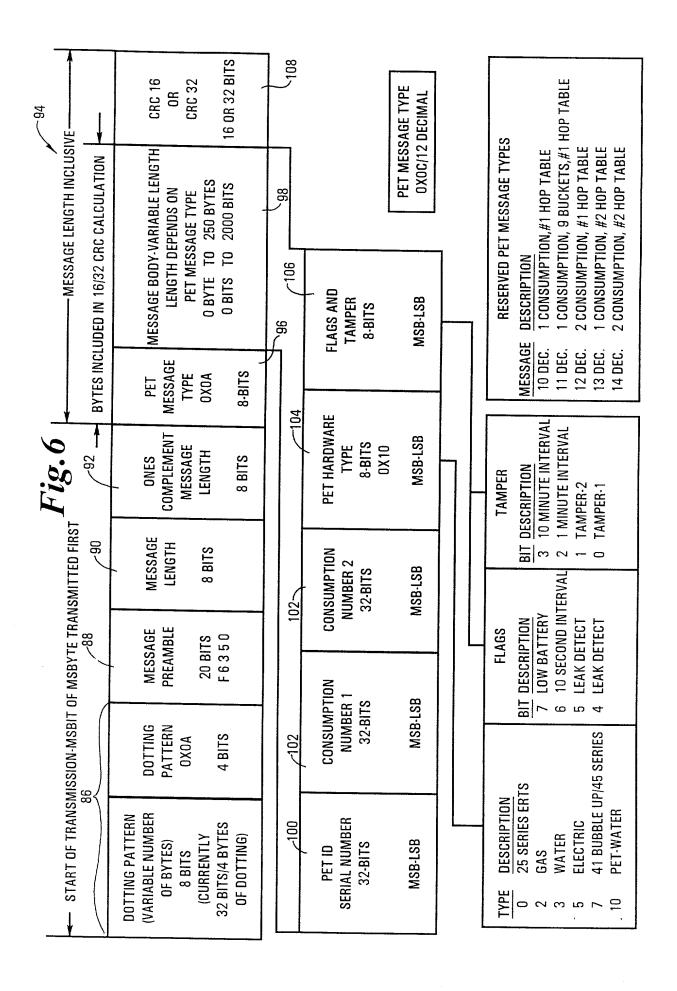
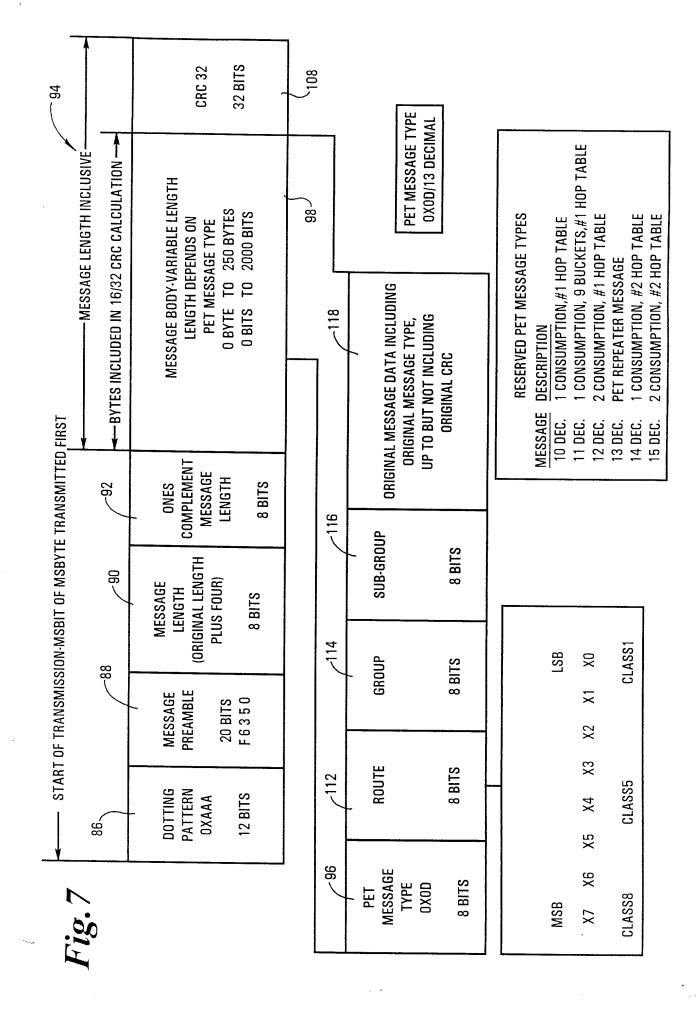


Fig. 3



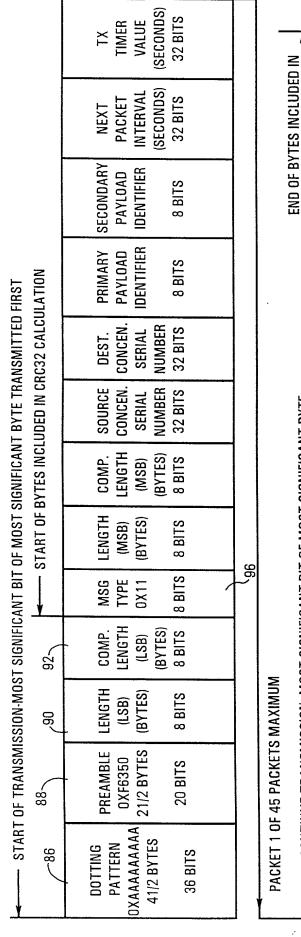
BYTES INCLUDED IN 16/32 CRC CALCULATION——	MESSAGE BODY-VARIABLE LENGTH CRC 16 LENGTH DEPENDS ON OR PET MESSAGE TYPE CRC 32 0 BYTE TO 250 BYTES 0 BITS TO 2000 BITS	108	800	PET MESSAGE TYPE 0X0A/10 DECIMAL	MESSAGE DESCRIPTION 10 DEC. 1 CONSUMPTION,#1 HOP TABLE 11 DEC. 1 CONSUMPTION, #1 HOP TABLE 12 DEC. 2 CONSUMPTION, #1 HOP TABLE 13 DEC. 1 CONSUMPTION, #2 HOP TABLE 14 DEC. 2 CONSUMPTION, #2 HOP TABLE	
BYTES IN	PET MESSAGE TYPE 0X0A 8-BITS	96		AND ER 'S SB	TAMPER DESCRIPTION O MINUTE INTERVAL AMPER-2 AMPER-1	
Fig.4	ONES COMPLEMENT MESSAGE LENGTH 8 BITS		104 106	FLAGS AND TAMPER 8-BITS MSB-LSB	TAMPER BIT DESCRIPTION 3 10 MINUTE INTERVA 2 1 MINUTE INTERVAL 1 TAMPER-2 0 TAMPER-1	
RANSMITTEI 90	MESSAGE LENGTH 8 BITS				, PET HARDWARE TYPE 8-BITS 0X10 MSB-LSB	ERVAL
START OF TRANSMISSION-MSBIT OF MSBYTE 1	MESSAGE PREAMBLE 20 BITS F 6 3 5 0					FLAGS BIT DESCRIPTION 7 LOW BATTERY 6 10 SECOND INT 5 LEAK DETECT 4 LEAK DETECT
ANSMISSION-M	DOTTING PATTERN OXOA 4 BITS			CONSUMPTION NUMBER 1 32-BITS MSB-LSB	S /45 SERIES	
→ START OF TRA	DOTTING PATTERN (VARIABLE NUMBER OF BYTES) 8 BITS (CURRENTLY 32 BITS/4 BYTES OF DOTTING)		100	PET ID SERIAL NUMBER 32-BITS MSB-LSB	TYPE DESCRIPTION 0 25 SERIES ERTS 2 GAS 3 WATER 5 ELECTRIC 7 41 BUBBLE UP/45 SERIES 10 PET-WATER	





MESSAGE LENGTH INCLUSIVE —— 94 IN 16/32 CRC CALCULATION —	MESSAGE BODY-VARIABLE LENGTH CRC 16 LENGTH DEPENDS ON OR PET MESSAGE TYPE CRC 32 0 BYTE TO 250 BYTES 0 BITS TO 2000 BITS		98/	PET MESSAGE TYPE 0X0E/14 DECIMAL	RESERVED PET MESSAGE TYPES DESCRIPTION 1 CONSUMPTION, #1 HOP TABLE 1 CONSUMPTION, 9 BUCKETS,#1 HOP TABLE 2 CONSUMPTION, #1 HOP TABLE 1 CONSUMPTION, #2 HOP TABLE 2 CONSUMPTION, #2 HOP TABLE
BYTES INCLUDED IN 16/32 CRC CALCULATION				FLAGS AND TAMPER 8-BITS MSB-LSB	MESSAGE DESCRIPTION 10 DEC. 1 CONSUMPT 12 DEC. 2 CONSUMPT 13 DEC. 1 CONSUMPT 14 DEC. 2 CONSUMPT 14 DEC. 2 CONSUMPT
* *	PET MESSAGE TYPE 0X0E 8-BITS	96	04		
Fig. 8	ONES COMPLEMENT MESSAGE LENGTH 8 BITS			PET HARDWARE TYPE 8-BITS 0X10 MSB-LSB	TAMPER DESCRIPTION 10 MINUTE INTERVAL 1 MINUTE INTERVAL TAMPER-2 TAMPER-1
RANSMITTED FIRS	MESSAGE LENGTH 8 BITS		В	CONSUMPTION NUMBER 2 32-BITS MSB-LSB	S ION ERY 3 3 3 1 1 CT CT 0
OF MSBYTE TF	MESSAGE PREAMBLE 20 BITS F 6 3 5 0		102B		FLAGS BIT DESCRIPTION 7 LOW BATTERY 6 10 SECOND INT 5 LEAK DETECT 4 LEAK DETECT
ISMISSION-MSBIT	DOTTING PATTERN OXOA 4 BITS		102A	CONSUMPTION NUMBER 1 32-BITS MSB-LSB	
START OF TRANSMISSION-MSBIT OF MSBYTE TRANSMITTED FIRST 86 86 90	(VARIABLE NUMBER OF BYTES) 8 BITS (CURRENTLY 32 BITS/4 BYTES OF DOTTING)		100	PET ID SERIAL NUMBER 32-BITS MSB-LSB	TYPE DESCRIPTION 2 SERIES ERTS 2 GAS 3 WATER 5 ELECTRIC 7 41 BUBBLE UP/45 SERIES 10 PET-WATER

Fig. 9



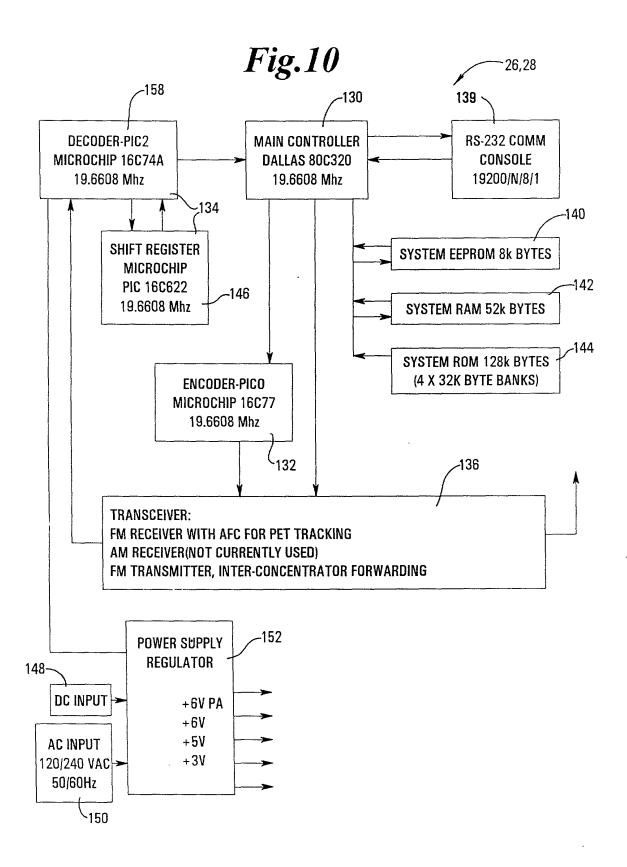
45 PACKETS MAXIMUM.... **ADDITIONAL PACKETS** 120 BITS PER PACKET **CRC32 CALCULATION** (SECONDS) **TRANSMIT 32 BITS** AGE AT TIME CONTINUE TRANSMISSION: MOST SIGNIFICANT BIT OF MOST SIGNIFICANT BYTE TAMPER 8 BITS MODE AND 106 HARDWARE 8 BITS TYPE CONSUMPTION **32 BITS** 102 **32 BITS** PET 10 700 MESSAGE 8 BITS TYPE

END OF TRANSMISSION

32 BIT CRC, MOST SIGNIFICANT BIT OF MOST SIGNIFICANT BYTE TRANSMITTED FIRST

CRC32 32 BITS

PET CONCENTRATOR
LARGE BLOCK MODE
MESSAGE TYPE
0X11/17 DECIMAL



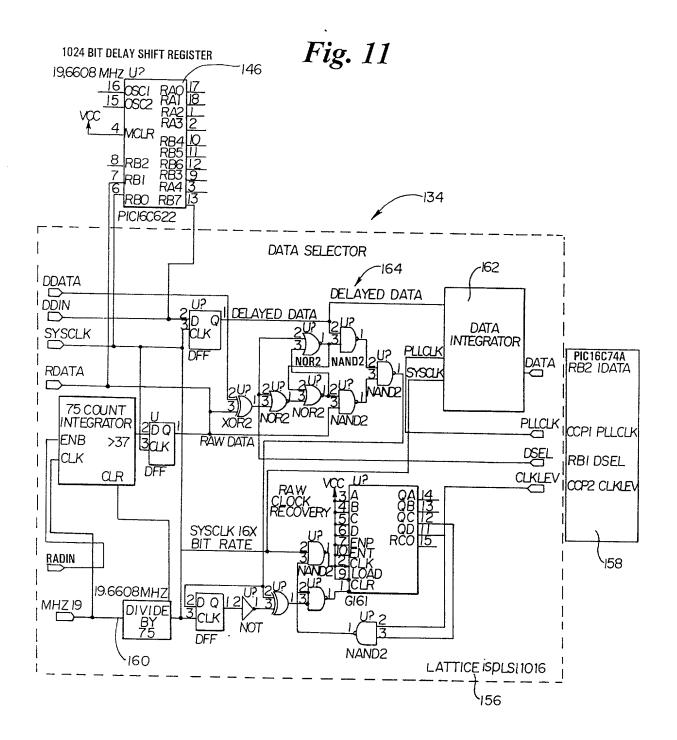


Fig. 12

FIG.12A	FIG. 12B	FIG.I2C
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Fig.12A

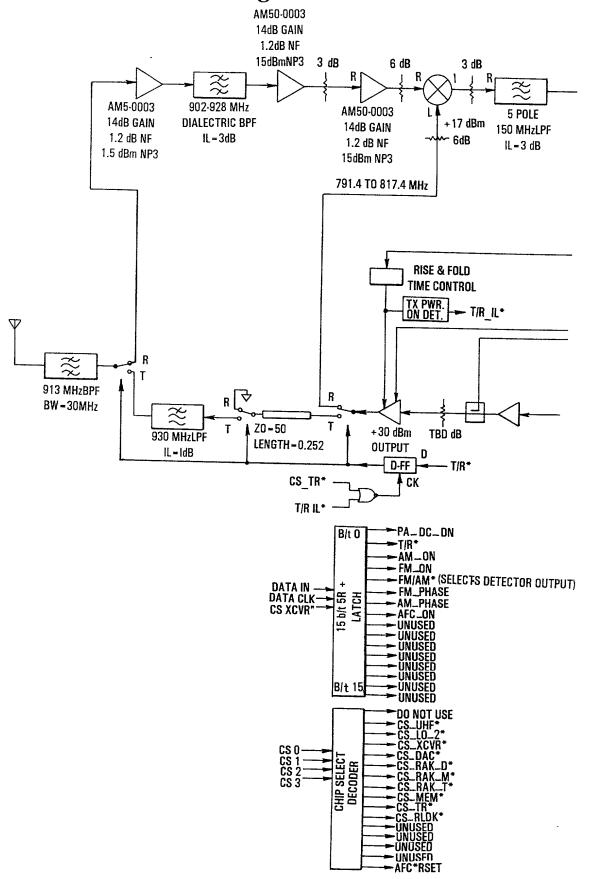
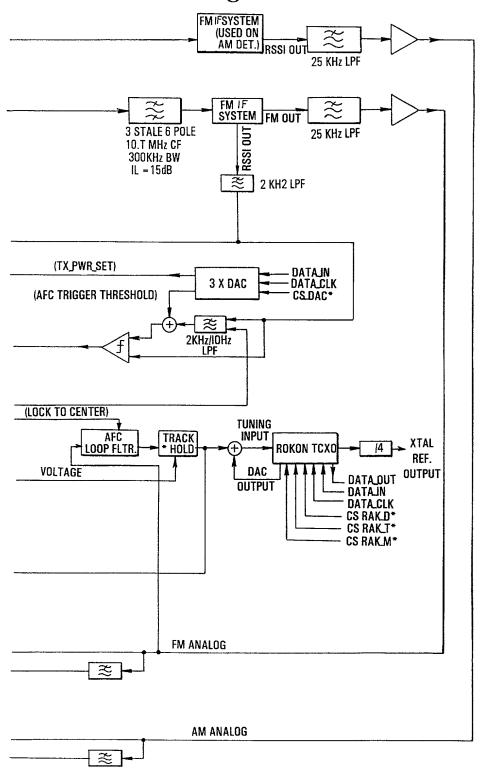
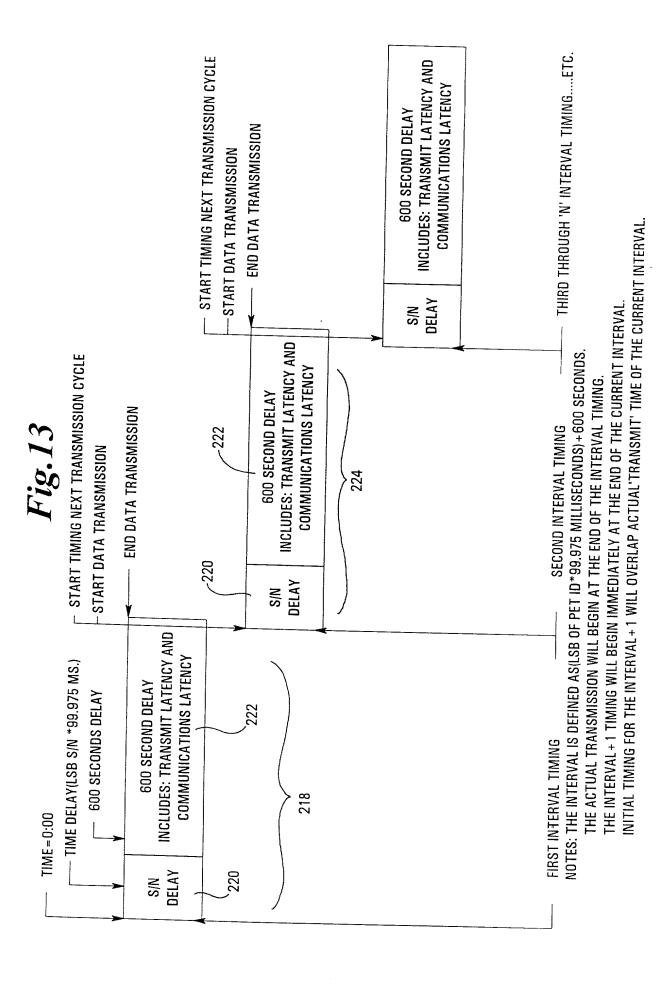


Fig.12C





PET RECEIVER MINIMUM WINDOW

NOTE: THE WINDOW REQUIRED IS 380 MILLISECONDS(200ms EARLY PLUS 180ms LATE) THIS REPRESENT THE MINIMUM TIME NECESSARY TO COMPENSATE FOR CRYSTAL TOLERANCES AND PREAMBLE DETECT.

200 MILLISECONDS REPRESENTS 180 MILLISECONDS EARLY PLUS 20 MILLISECONDS ALLOWED FOR PREAMBLE DETECT TO OCCUR. THE INTERVAL IS MAINTAINED AND REPRESENTS THE TIME FROM ONE PREAMBLE DETECT TO THE NEXT PREAMBLE DETECT.

Fig.14

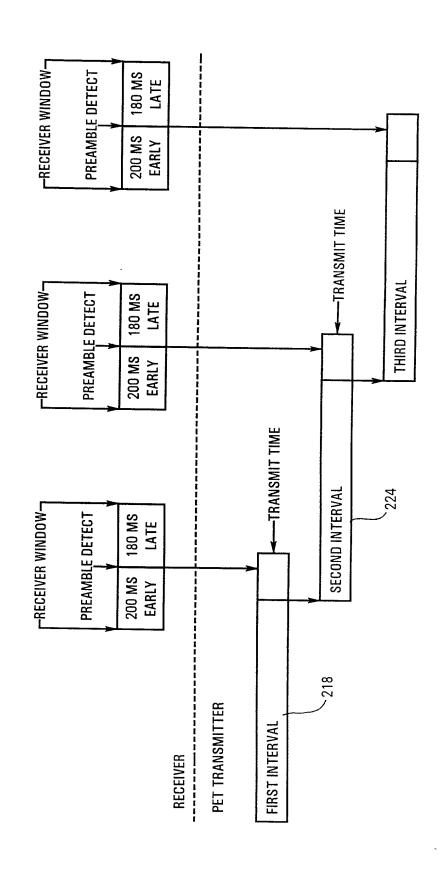


Fig. 15

